

74267-3

9/9/2013

1/58



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 9 2013

Gary Libman
Principal, GNL Consultation Services
On behalf of Premier Horticulture
25 Casa Hermosa
Albuquerque, NM 87112

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

RE: Label Amendments and Alternative Formulation Requests for Additional Formulations (Pro-Mix GHA 180 BRK20 Blend, Pro-Mix GHA180 LP15 Blend, Pro-Mix Tandem BRK 20 Blend and Pro-Mix Tandem LP 15 Blend)
Product names: Pro-Mix GHA180, and Pro-Mix Tandem
Active Ingredient: *Bacillus pumilus* GHA180
EPA File Symbols: 74267-3, and 74267-4
OPP Decision Number: D482375 and D472622

Dear Dr. Libman:

The Agency has reviewed your request to add two new formulations to each of Pro-Mix GHA180, and Pro-Mix Tandem CX-9030 labels. Two new alternate confidential statements of formula were submitted to support these amendments for each of these products. In addition the labels for the products were reformatted to include sublabels for each formula. The two additional blends requested by Premier Horticulture for EPA Reg. No. 74267-3 were Pro-Mix GHA 180 BRK20 Blend and Pro-Mix GHA180 LP15 Blend. The two additional blends requested for EPA Reg. No. 74267-4 were Pro-Mix Tandem BRK 20 Blend and Pro-Mix Tandem LP 15 Blend. The four CSFs submitted by Premier Horticulture signed on November 15, 2012 are acceptable.

The label amendments referred to above, submitted in connection with registration under section 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable provided that you:

1. Submit and/or cite all data required for registration of your products under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies each of the final printed labeling prior to releasing these products for shipment.

CONCURRENCES									
SYMBOL	▶	75110	75110						
SURNAME	▶	Slomkowski	Slomkowski						
DATE	▶	9/9/13	9/9/13						

If these conditions are not complied with, these registrations will be subject to cancellation in accordance with FIFRA § 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. If you have any further questions regarding this, please do not hesitate to contact Susanne Cerrelli, at 703-308-8077 (cerrelli.susanne@epa.gov).

Sincerely,



Kimberly Nesci

Chief, Microbial Pesticides Branch

Biopesticides and Pollution Prevention Division (7511P)

Enclosures

PRO-MIX® GHA180 Master Label

PRO-MIX® GHA180

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE™ FOR GREENHOUSE OR CONTAINED NURSERY
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.pthorticulture.com</p>	

2.8 cu ft loose (85 L), 3.8 cu ft compressed (107 L), 55 cu ft compressed (1 557 L), 60 cu ft loose (1 700 L), 70 cu ft loose (1 980 L), 80 cu ft loose (2 265 L), 135 cu ft compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

ACCEPTED
SEP 9 2013

Batch Code:

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 74267-3

2013-07-02

(Master Label : 1/6)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting, and in greater crop response.

PRO-MIX® GHA180 Master Label

**PRO-MIX GHA180
Custom Blends**

PRO-MIX GHA180 is a custom blended growing medium designed to meet your growing needs.

- **‘BX’ Blend.** PRO-MIX BX Blend is a peat-based ‘General Purpose’ growing medium formulated for the cultivation of horticultural plants. This growing medium contains a blend of select Canadian Sphagnum peat moss, perlite, vermiculite, dolomitic and calcitic limestone. This formulation is lightweight, uniform and provides conditions necessary to establish plant growth.
- **‘HP’ Blend.** PRO-MIX HP Blend is a ‘High Porosity’ peat-based growing medium designed for the cultivation of horticultural plants. This lightweight and porous growing medium provides conditions necessary to establish plant growth, especially when growing situations require medium with high air-capacity and low water-retention. This formulation is excellent for use with water sensitive crops, propagation of plant cuttings and /or low-light growing conditions.
- **‘LP15’ Blend.** PRO-MIX LP15 is a multipurpose peat-based, perlite professional growing medium designed for growers that prefer a low amount of aggregate and no vermiculite. PRO-MIX LP15 is suitable for a wide range of greenhouse and transplanting applications.
- **‘TA’ Blend.** PRO-MIX TA Blend is a peat-based growing medium formulated for germinating and growing-on of Tobacco and Agriculture transplants. This blend is ideal for use with trays/flats cultivated in sub-irrigated float systems and conventional irrigation methods. This fine textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand.
- **‘FPX’ Blend.** PRO-MIX FPX Blend is a fine peat/perlite-based growing medium for germinating ornamental and vegetable seeds in small cell plug trays. It contains a base blend of short-fibered Sphagnum peat moss and fine perlite for easy filling of trays with minimal bridging. When in use, this blend retains less water than peat/vermiculite blends.
- **‘PGX’ Blend.** PRO-MIX PGX Blend is a peat-based growing medium designed for germinating ornamental and vegetable seeds. This fine textured blend contains a base of short-fibered Sphagnum peat moss and fine grade vermiculite and is well suited for traditional seeding and plug-system applications.
- **‘BRK’ Blend.** PRO-MIX BRK is a medium-weight, Peat/Bark-based growing medium designed for the cultivation of horticulture plants. Processed pine bark adds weight and reduces water retention of media while Sphagnum peat moss is light-weight and possesses high water-holding ability. This combination forms a base for a “general use” growing medium that provides conditions necessary to establish plant growth, particularly when container stability and low- water retention are required.
- **‘BRK20’ Blend.** Similar to the BRK Blend, PRO-MIX BRK20 is Peat/Bark-based growing medium with 20% processed pine bark to add weight and reduce water retention of media. This combination forms a base for a “general use” growing medium that provides conditions necessary to establish plant growth when less bark is required.

PRO-MIX® GHA180 Master Label

To determine the best PRO-MIX® GHA180 for your growing needs, consult the following base-formula table. For technical assistance, plant compatibility information and crop culture guidelines, contact PREMIER GROWER SERVICES – USA: 1 800 424-2554 – Canada: 1 800 667-5366.

Blends	Sphagnum peat moss	Perlite	Vermiculite	Starter nutrients	Limestone	Wetting agent	Bark
BX							
HP							
LP15							
TA			plug-grade				
FPX		plug-grade					
MPX							
PGX			plug-grade				
VFT			plug-grade				
BRK							
BRK20							

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PRO-MIX® GHA180 Master Label

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHA180** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180**
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).

PRO-MIX® GHA180 Master Label

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER TECH HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, PREMIER TECH HORTICULTURE guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**



Manufactured For:
PREMIER HORTICULTURE INC.
Quakertown, PA USA 18951
For additional information, call:
1 800 525-2553
www.pthorticulture.com

Manufactured By:
PREMIER HORTICULTURE LTD
Rivière-du-Loup (Québec) Canada G5R 6C1
For additional information, call:
1 800 667-5366
www.pthorticulture.com

Product of Canada

PRO-MIX GHA180 BX

Sub-label

PRO-MIX[®] GHA180 BX

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CAUTION:
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PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(BX Sub-label: 1/5)

PRO-MIX GHA180 BX

Sub-label

(Back Panel)

<p>PROFESSIONAL PRO-MIX® GHA180 BX</p>

PRECAUTIONARY STATEMENTS

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Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer’s instructions for cleaning / maintaining PPE.

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FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

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PRO-MIX® GHA180 BX has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a

PRO-MIX GHA180 BX

Sub-label

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PRO-MIX GHA180 BX

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DIRECTIONS FOR USE

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AGRICULTURAL USE REQUIREMENTS

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APPLICATION INFORMATION

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- Do not add fertilizers when sowing seeds.
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- Do not sterilize or pasteurize **PRO-MIX® GHA180 BX**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 BX**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

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QUALITY GUARANTEE

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PRO-MIX GHA180 BX

Sub-label

11/56



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Product of Canada

4/58

PRO-MIX GHA180 HP

Sub-label

12/56

PRO-MIX[®] GHA180 HP

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1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(HP Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
HP**

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PRO-MIX GHA180 HP

Sub-label

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AGRICULTURAL USE REQUIREMENTS

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There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHA180 HP** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 HP is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 HP is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 HP** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 HP**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 HP**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Do not contaminate water by cleaning of equipment or disposal wastes.

STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, **PREMIER HORTICULTURE** guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

PRO-MIX GHA180 HP

Sub-label

16/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

www.pthorticulture.com

Manufactured By:

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

For additional information, call:

1 800 667-5366

www.pthorticulture.com

Product of Canada

19/58

PRO-MIX GHA180 LP15

Sub-label

17/56

PRO-MIX[®] GHA180 LP15

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(LP15 Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
LP15**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation .Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer’s instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 LP15 has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a

biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHA180 LP15

PRO-MIX LP15 is a multipurpose peat-based, perlite professional growing medium designed for growers that prefer a low amount of aggregate and no vermiculite. PRO-MIX LP15 is suitable for a wide range of greenhouse and transplanting applications.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to PRO-MIX® GHA180 LP15 until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 LP15 is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 LP15 is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional

requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 LP15** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 LP15**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 LP15**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Do not contaminate water by cleaning of equipment or disposal wastes.

STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, **PREMIER HORTICULTURE** guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

23
/58

PRO-MIX GHA180 LP15

Sub-label

21/56



Manufactured For:
PREMIER HORTICULTURE INC.
Quakertown, PA USA 18951
For additional information, call:
1 800 525-2553
www.pthorticulture.com

Manufactured By:
PREMIER HORTICULTURE LTD
Rivière-du-Loup (Québec) Canada G5R 6C1
For additional information, call:
1 800 667-5366
www.pthorticulture.com

Product of Canada

24/58

PRO-MIX GHA180 TA

Sub-label

22/56

PRO-MIX[®] GHA180 TA

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(LP15 Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
TA**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation .Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer’s instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

- | | |
|-------------------|--|
| If in Eyes | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Contact a poison control center or doctor for treatment advice. |
|-------------------|--|

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 TA has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a

PRO-MIX GHAI80 TA

Sub-label

biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHAI80 TA

PRO-MIX TA is a peat-based growing medium formulated for germinating and growing-on of Tobacco and Agriculture transplants. This blend is ideal for use with trays/flats cultivated in sub-irrigated float systems and conventional irrigation methods. This fine textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHAI80 TA** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHAI80 TA is suitable for fruit and vegetable transplants. PRO-MIX® GHAI80 TA is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use PRO-MIX® GHA180 TA "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize PRO-MIX® GHA180 TA.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with PRO-MIX® GHA180 TA, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
 Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.
CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, PREMIER HORTICULTURE guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**

28/
58

PRO-MIX GHA180 TA

Sub-label

26/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

www.pthorticulture.com

Manufactured By:

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

For additional information, call:

1 800 667-5366

www.pthorticulture.com

Product of Canada

29/58

PRO-MIX GHA180 FPX

Sub-label

27/56

PRO-MIX[®] GHA180 FPX

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(FPX Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
FPX**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 FPX has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

31/58

PRO-MIX GHA180 FPX

PRO-MIX FPX is a fine peat/perlite-based growing medium for germinating ornamental and vegetable seeds in small cell plug trays. It contains a base blend of short-fibered Sphagnum peat moss and fine perlite for easy filling of trays with minimal bridging. When in use, this blend retains less water than peat/vermiculite blends.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to PRO-MIX® GHA180 FPX until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 FPX is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 FPX is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop

early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 FPX** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 FPX**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 FPX**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
 Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.
CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, PREMIER HORTICULTURE guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**

PRO-MIX GHA180 FPX

Sub-label

31/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

www.pthorticulture.com

Manufactured By:

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

For additional information, call:

1 800 667-5366

www.pthorticulture.com

Product of Canada

31/58

PRO-MIX GHA180 MPX

Sub-label

32/56

PRO-MIX[®] GHA180 MPX

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(MPX Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
MPX**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 MPX has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHAI180 MPX

PRO-MIX MPX is a peat-based professional growing medium designed for the cultivation of horticultural greenhouse plants. It is uniform and blended to the highest degree of consistency to provide conditions necessary to establish plant growth. PRO-MIX 'MPX' is suitable for a wide variety of plant species.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to PRO-MIX® GHAI180 MPX until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHAI180 MPX is suitable for fruit and vegetable transplants. PRO-MIX® GHAI180 MPX is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature

can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 MPX** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 MPX**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 MPX**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
 Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.
CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, **PREMIER HORTICULTURE** guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**

38/58

PRO-MIX GHA180 MPX

Sub-label

36/56



Manufactured For:
PREMIER HORTICULTURE INC.
Quakertown, PA USA 18951
For additional information, call:
1 800 525-2553
www.pthorticulture.com

Manufactured By:
PREMIER HORTICULTURE LTD
Rivière-du-Loup (Québec) Canada G5R 6C1
For additional information, call:
1 800 667-5366
www.pthorticulture.com

Product of Canada

31/58

PRO-MIX GHA180 PGX

Sub-label

37/56

PRO-MIX® GHA180 PGX

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(PGX Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
PGX**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 PGX has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHAI80 PGX

PRO-MIX PGX is a peat-based growing medium designed for germinating ornamental and vegetable seeds. This fine textured blend contains a base of short-fibered Sphagnum peat moss and fine grade vermiculite and is well suited for traditional seeding and plug-system applications.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHAI80 PGX** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHAI80 PGX is suitable for fruit and vegetable transplants. PRO-MIX® GHAI80 PGX is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt

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PRO-MIX GHA180 PGX

Sub-label

accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 PGX** “as is” from package. Add water to moisten.
- Thoroughly moisten medium to “water-in” plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 PGX**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 PGX**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.
CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

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**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**

43
/58

PRO-MIX GHA180 PGX

Sub-label

41/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

www.pthorticulture.com

Manufactured By:

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

For additional information, call:

1 800 667-5366

www.pthorticulture.com

Product of Canada

44
/58

PRO-MIX GHA180 VFT

Sub-label

42/56

PRO-MIX[®] GHA180 VFT

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(VFT Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
VFT**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 VFT has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHA180 VFT

PRO-MIX VFT is a peat-based growing medium formulated for germinating and growing-on of vegetable, fruit and tobacco transplants. This blend is designed for use with trays/flats cultivated in sub-irrigated float systems and conventional irrigation methods. (Optional Text: This formulation contains a blend of ingredients that allow oxygen and water to move freely for uniform seed germination and plant growth. This fine textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand. USES: Vegetable Transplants, Fruit Transplants, Tobacco Transplants, Germination of Tobacco and Vegetable Seeds, Float Trays, Sub-irrigation systems).

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to PRO-MIX® GHA180 VFT until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 VFT is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 VFT is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional

requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 VFT** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 VFT**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 VFT**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Do not contaminate water by cleaning of equipment or disposal wastes.

STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, **PREMIER HORTICULTURE** guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

48/
58

PRO-MIX GHA180 VFT

Sub-label

46/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

www.pthorticulture.com

Manufactured By:

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

For additional information, call:

1 800 667-5366

www.pthorticulture.com

Product of Canada

49/
58
47/56

PRO-MIX GHA180 BRK

Sub-label

PRO-MIX[®] GHA180 BRK

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p>ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p>EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<p>1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)</p>
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(BRK Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180
BRK**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation .Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer’s instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 BRK has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

PRO-MIX GHA180 BRK

PRO-MIX BRK is a medium-weight, Peat/Bark-based growing medium designed for the cultivation of horticulture plants. Processed pine bark adds weight and reduces water retention of media while Sphagnum peat moss is light-weight and possesses high water-holding ability. This combination forms a base for a "general use" growing medium that provides conditions necessary to establish plant growth, particularly when container stability and low- water retention are required.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHA180 BRK** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 BRK is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 BRK is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 BRK** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 BRK**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 BRK**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Do not contaminate water by cleaning of equipment or disposal wastes.

STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

QUALITY GUARANTEE

PREMIER HORTICULTURE is committed to quality. If you are not satisfied with the quality of this product, PREMIER HORTICULTURE guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

PRO-MIX GHA180 BRK

Sub-label

51/56



Manufactured For:
PREMIER HORTICULTURE INC.
Quakertown, PA USA 18951
For additional information, call:
1 800 525-2553
www.pthorticulture.com

Manufactured By:
PREMIER HORTICULTURE LTD
Rivière-du-Loup (Québec) Canada G5R 6C1
For additional information, call:
1 800 667-5366
www.pthorticulture.com

Product of Canada

54/58

PRO-MIX[®] GHA180 BRK20

**PROFESSIONAL
SPHAGNUM PEAT-BASED GROWING MEDIUM
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES
USE**

CAUTION:
KEEP OUT OF REACH OF CHILDREN
See Additional Precautionary Statements on Back Panel

<p style="text-align: center;">ACTIVE INGREDIENT: <i>Bacillus pumilus</i> GHA180 (not less than 5 X 10⁴ viable spore per gram of media)0.001% OTHER INGREDIENTS:99.999% Total.....100.00 %</p>	<p style="text-align: center;">EPA Reg. No. 74267-3 EPA Establishment No. 4267-CAN-01/02/03/04/05</p>
<p>For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year / month / day / manufacture location / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p>	<ol style="list-style-type: none"> 1 for Rivière-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01) 2 for Rivière-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02) 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03) 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04) 5 for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-05)
<p>www.premierhort.com</p>	

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),
135 Cu. Ft. compressed (3 825 L).

PRODUCT OF CANADA
PREMIER HORTICULTURE INC.
127 South 5th street
Quakertown, PA
USA 18951

PRODUIT DU CANADA
PREMIER HORTICULTURE LTEE
1 avenue Premier
Rivière-du-Loup, Quebec
Canada G5R 6C1

Batch Code:

2013-07-02

(BRK20 Sub-label : 1/5)

(Back Panel)

**PROFESSIONAL
PRO-MIX® GHA180**

BRK20

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): As a general precaution when exposed to living microbial products such as this, applicators (**persons opening bags and/or filling potting machines**) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

User Safety Recommendations:

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PRO-MIX® GHA180 BRK20 has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is then established that results in more uniform plant stands after transplanting and in greater crop response.

56/58

PRO-MIX GHA180 BRK20

PRO-MIX BRK20. Similar to the BRK Blend, PRO-MIX BRK20 is Peat/Bark-based growing medium with 20% processed pine bark to add weight and reduce water retention of media. This combination forms a base for a “general use” growing medium that provides conditions necessary to establish plant growth when less bark is required.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

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There is a zero (0) restricted entry interval for this product.

PREPARATION

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to **PRO-MIX® GHA180 BRK20** until slightly moist to the touch. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the greenhouse.

IMPORTANT: PRO-MIX® GHA180 BRK20 is suitable for fruit and vegetable transplants. PRO-MIX® GHA180 BRK20 is for use in protected growing environments only (e.g. glasshouse or greenhouse): not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves, this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can insure plants receive proper nutritional requirements.

WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water 'runs through' to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

- Use **PRO-MIX® GHA180 BRK20** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize **PRO-MIX® GHA180 BRK20**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX® GHA180 BRK20**, and will provide extended protection throughout the growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
 Do not contaminate water by cleaning of equipment or disposal wastes.
STORAGE: Store in a dry place at ambient temperature (-30 to 30 °C).
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.
CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

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**PLEASE RECYCLE
RESPECTS ALL LEGISLATION ON HEAVY METALS**

PRO-MIX GHA180 BRK20

Sub-label

58
/58

56/56



Manufactured For:

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

For additional information, call:

1 800 525-2553

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